$$5.1.3$$

$$Goo = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}, Goi = \begin{bmatrix} 1 & -1 \\ 1 & -1 \end{bmatrix}$$

$$b_{10} = \begin{bmatrix} 1 & 1 \\ -1 & -1 \end{bmatrix}$$
, $b_{11} = \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix}$

$$\langle 6_{01}, 6_{10} \rangle = |(1) + |(-1) - |(1) - |(-1) = 0$$

$$\langle 601, 611 \rangle = 1(1) - 1(-1) + 1(-1) - 1(1) = 0$$

$$\langle 6_{10}, 6_{11} \rangle = ((1) + ((-1) - ((-1) - ((1) = 0)))$$

$$\langle b_{01}, 6_{01} \rangle = |(1) - ((-1) + |(1) - |(-1)| = 4$$

$$\langle G_{10}, G_{10} \rangle = |(1) + |(1) - |(-1) - |(-1)| = 4$$

$$\langle G_{11}, G_{11} \rangle = |(1) - |(-1) - |(-1) + |(1) = q$$

$$\langle 6_{00}, 6_{00} \rangle = 4$$
 $\langle 6_{10}, 6_{10} \rangle = 4$ $\langle 6_{01}, 6_{01} \rangle = 4$

$$\langle 6_{01}, 6_{01} \rangle = 4 \quad \langle 6_{11}, 6_{11} \rangle = 4$$

$$A = 2 \begin{bmatrix} a & 0 \\ 1 & 0 \end{bmatrix} - 2 \begin{bmatrix} 1 & 0 \\ -2 & 0 \end{bmatrix} + 3.2 \begin{bmatrix} 0 & 2 \\ 0 & 1 \end{bmatrix} - 2.4 \begin{bmatrix} 0 & 1 \\ 0-2 \end{bmatrix}$$

$$A = 5\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} - 1\begin{bmatrix} 1 & -1 \\ 1 & -1 \end{bmatrix} - 2\begin{bmatrix} 1 & 1 \\ -1 & -1 \end{bmatrix} + 0\begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix}$$